The Shadow Hand

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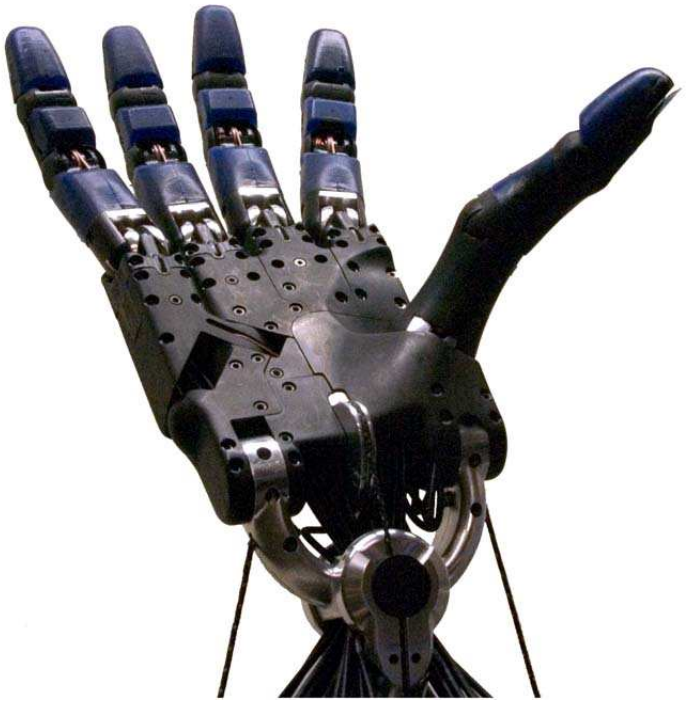
This demonstration will show the Shadow Hand in operation. The Shadow Hand is the closest robot hand to the human hand that is commercially available. It provides 24 movements, allowing a direct mapping from a human to the robot. The Shadow Hand has integrated sensing and position control, allowing precise control from off-board computers, or integration into existing robot platforms. The Shadow Hand contains an integrated bank of 40 Air Muscles which make it move. The muscles are compliant, which allows the hand to be used around soft or fragile objects. The Shadow Hand can be fitted with touch sensing on the fingertips, offering sensitivity sufficient to detect a single small coin.